

Appl. No.10/698,309
Docket No. 9085M
Arndt dated January 9, 2007
Reply to Office Action mailed on December 26, 2006
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims, in the application:

Listing of Claims:

Claim 1 (Original) A personal care composition comprising:

- a) a personal care adjunct ingredient; and
- b) a perfume polymeric particle selected from the group consisting of anionic, non-ionic and combinations thereof comprising:
 - i) a polymer selected from the group consisting of a anionic polymer, a nonionic polymer and mixtures thereof, wherein said polymer further comprising an anionic monomer and a nonionic monomer; and
 - ii) a perfume comprising one or more perfume raw materials having one or more of the following characteristics;
 - a) a number molecular weight of less than about 200;
 - b) a boiling point of less than about 250°C;
 - c) a ClogP of less than about 3; and
 - d) a Kovats Index value of less than about 1700;

wherein a Response Factor (RF) of the perfume polymeric material is at least about 1.6.

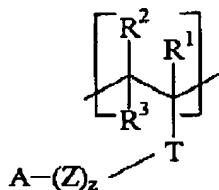
Claim 2 (Original) The personal care composition according to Claim 1, further comprising at least about 0.1 weight percent of one or more perfume raw material.

Claim 3 (Original) The personal care composition according to Claim 2, wherein at least 25 weight percent of said perfume raw materials have a Kovats Index value of less than about 1700.

Claim 4 (Original) The personal care composition according to Claim 1 wherein said perfume polymeric polymer further comprising a cationic monomer.

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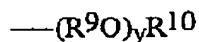
Claim 5 (Original) The personal care composition according to Claim 4 wherein said cationic monomer having the formula:



[I]

wherin each of R¹, R² and R³ are independently selected from the group consisting of hydrogen, C₁ to C₆ alkyl, and mixtures thereof; T is selected from the group consisting of substituted or unsubstituted, saturated or unsaturated, linear or branched radicals selected from the group consisting of alkyl, cycloalkyl, aryl, alkaryl, aralkyl, heterocyclic ring, silyl, nitro, halo, cyano, sulfonato, alkoxy, keto, ester, ether, carbonyl, amido, amino, glycidyl, carbanato, carbamate, carboxylic, and carboalkoxy radicals and mixtures thereof; Z is selected from the group consisting of: -(CH₂)-, (CH₂-CH=CH)-, -(CH₂-CHOH)-, (CH₂-CHNR⁴)-, -(CH₂-CHR⁵-O)- and mixtures thereof; z is an integer selected from about 0 to about 12; A is selected from the group consisting of NR⁶R⁷, NR⁶R⁷R⁸ and mixtures thereof;

wherin each of R⁶, R⁷ and R⁸, when present, are independently selected from the group consisting of H, C₁-C₈ linear, branched alkyl, alkyleneoxy having the formula:



and mixtures thereof;

wherin R⁹ is selected from the group consisting of C₂-C₄ linear, branched alkylene, carbonyl alkyl, and mixtures thereof; R¹⁰ is selected from the group consisting of hydrogen, C₁-C₄ alkyl carbonyl alkyl, and mixtures thereof; y is from 1 to about 10.

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Claim 6 (Original) The personal care composition according to Claim 1, which further comprises a cationic deposition polymer aggregated with said anionic perfume polymeric particle.

Claim 7 (Original) The personal care composition according to Claim 6 wherein the cationic deposition polymer is selected from cationic deposition polymers with flocculation time of less than 30 minutes as described in a Flocculation/Settling Test.

Claim 8 (Original) The personal care composition according to Claim 1 wherein perfume polymeric particles comprising said anionic and nonionic polymers further comprises non-cationic monomer comprising a hydrophobic group selected from the group consisting of alkyls, cycloalkyls, aryls, alkaryl, aralkyls and mixtures thereof.

Claim 9 (Original) The personal care composition according to Claim 8 wherein the non-cationic monomer is selected from the group consisting of: methyl methacrylate, methyl acrylate, ethyl acrylate, n-propyl acrylate, iso-propylacrylate, n-propyl methacrylate, ethyl methacrylate, iso-propylmethacrylate, n-butyl acrylate, isobutyl acrylate, isobutyl methacrylate, n-butyl methacrylate, methacrylic acid, acrylic acid, acrylamide, methacrylamide, styrene, α -methyl styrene, benzyl acrylate, ethylhexylacrylate, hydroxyethylacrylate, hydroxypropylacrylate, hydroxyethylmethacrylate, hydroxypropylmethacrylate, hydroxybutylacrylate, hydroxybutylmethacrylate, PEG acrylate, acylamido-2-methylpropanesulfonic acid, vinylsulfonate, vinylpropionate, methylallylsulfonic acid, N-vinylformamide and N-vinylpyrrolidone and mixtures thereof.

Claim 10 (Original) The personal care composition according to Claim 1 wherein said anionic and nonionic polymers are a water-insoluble polymer.

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Claim 11 (Original) The personal care composition according to Claim 1 wherein said polymer is an anionic polymer.

Claim 12 (Original) The personal care composition according to Claim 1 wherein greater amounts of said perfume raw material is deposited onto a substrate and released from a substrate when the perfume raw material is associated with said polymer in the form of the perfume polymeric particle as measured by the Perfume Deposition & Delivery Test Protocol I.

Claim 13 (Original) A personal care composition of Claim 1, wherein one or more Low Kovats Index perfume raw materials, each having a Kovats Index value of from about 1000 to about 1400, and collectively provide a first Average Response Factor (ARF_{LKI}); and one or more High Kovats Index perfume raw materials, each having a Kovats Index value of greater than about 1700, and collectively provide a second Average Response Factor (ARF_{HKI}); wherein the perfume polymeric particle has a selectivity ratio of ARF_{LKI} / ARF_{HKI} of at least about 1.2.

Claim 14 (Original) The personal care composition of Claim 13 wherein Longevity Test I value provides an ARF_{LKI} greater than or equal to 1.6 times the value of ARF_{HKI}.

Claim 15 (Original) The personal care composition of Claim 13 wherein Longevity Test II value provides an ARF_{LKI} greater than or equal to 1.6 times the value of ARF_{HKI}.

Claim 16 (Original) A personal care composition comprising:

- a) a personal care adjunct ingredient; and
- b) a perfume polymeric particle selected from the group consisting of anionic, non-ionic and combinations thereof comprising:

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- i) a polymer selected from the group consisting of a anionic polymer, a nonionic polymer and mixtures thereof, wherein said polymer further comprising an anionic monomer and a nonionic monomer exhibits a greater affinity for a perfume raw material having a Kovats Index value of less than about 1700, than other perfume raw materials as measured by the Perfume Deposition & Delivery Test Protocol I and/or the Polymeric Particle Affinity Test Protocol II
wherein the Longevity Test II value provides a ARF_{LKI} greater than or equal to 1.2 times the value of ARF_{HKI} .

Claim 17 (Original) The personal care composition according to Claim 16 wherein said polymer exhibits at least a 1.6 times the affinity for a perfume raw material having a Kovats Index on DB-5 of between about 1000 to about 1500 than other perfume raw materials having a Kovats Index on DB-5 of greater than about 1700 as measured by the Perfume Deposition & Delivery Test Protocol I and the Polymeric Particle Affinity Test Protocol II.

Claims 18-23. (Canceled).